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Albert Chang, Mark F. Mergen

 February 1988 **ACM Transactions on Computer Systems (TOCS)**, Volume 6 Issue 1

Publisher: ACM Press

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Based on novel architecture, the 801 minicomputer project has developed a low-level storage manager that can significantly simplify storage programming in subsystems and applications. The storage manager embodies three ideas: (1) large virtual storage, to contain all temporary data and permanent files for the active programs; (2) the innovation of database storage, which has implicit properties of access serializability and atomic update, similar to those of ...

### 2 [Storage challenge: Storage challenge---Trading memory for disk: using parallel access to fast InfiniBand disk arrays for large computational chemistry applications](#)



Troy Benjegerdes, Brett Bode, Kyle Schochenmaier

 November 2006 **Proceedings of the 2006 ACM/IEEE conference on Supercomputing SC '06**

Publisher: ACM Press

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We present a novel approach for using high performance network attached parallel storage for out-of-core computation. Our approach utilizes many parallel disks and storage controllers with a near 1:1 ratio of compute nodes to storage servers. This, when combined with 30 Gigabit 12X InfiniBand interconnects, allows remote storage subsystem bandwidth to reach the same performance level as local memory-cache file I/O performance. This combination allows computational chemistry application problems ...

### 3 [Storage performance virtualization via throughput and latency control](#)



Jianyong Zhang, Anand Sivasubramaniam, Qian Wang, Alma Riska, Erik Riedel

 August 2006 **ACM Transactions on Storage (TOS)**, Volume 2 Issue 3

Publisher: ACM Press

 Full text available: [pdf\(523.67 KB\)](#)

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I/O consolidation is a growing trend in production environments due to increasing complexity in tuning and managing storage systems. A consequence of this trend is the need to serve multiple users and/or workloads simultaneously. It is imperative to ensure



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